FIG.1

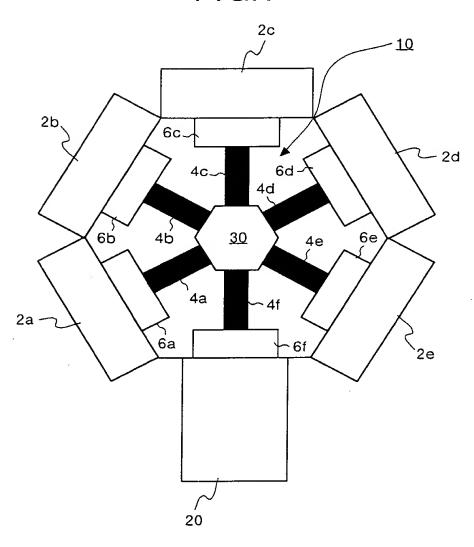
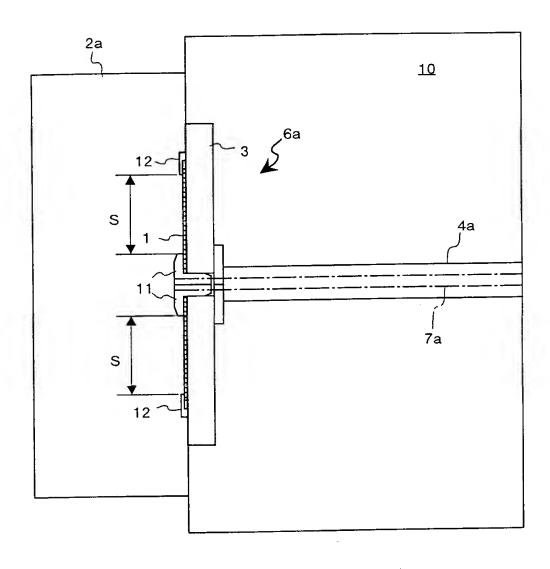




FIG.2



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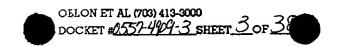


FIG.3

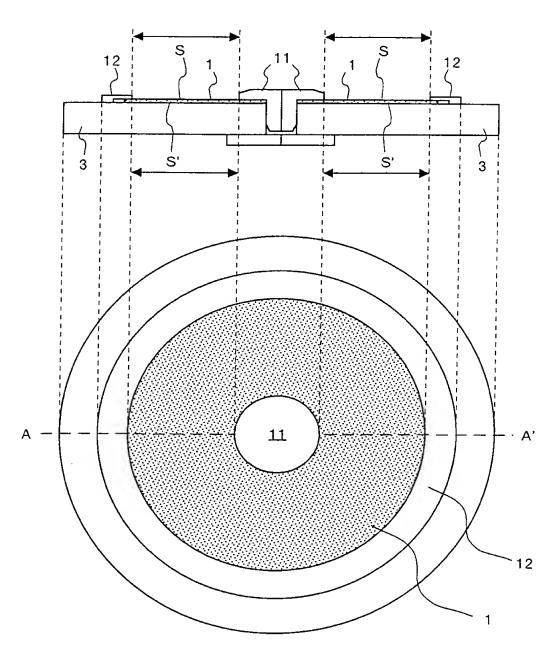
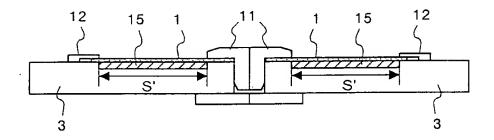
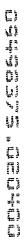


FIG.4



the first that the first term was man near true to the term that the first first



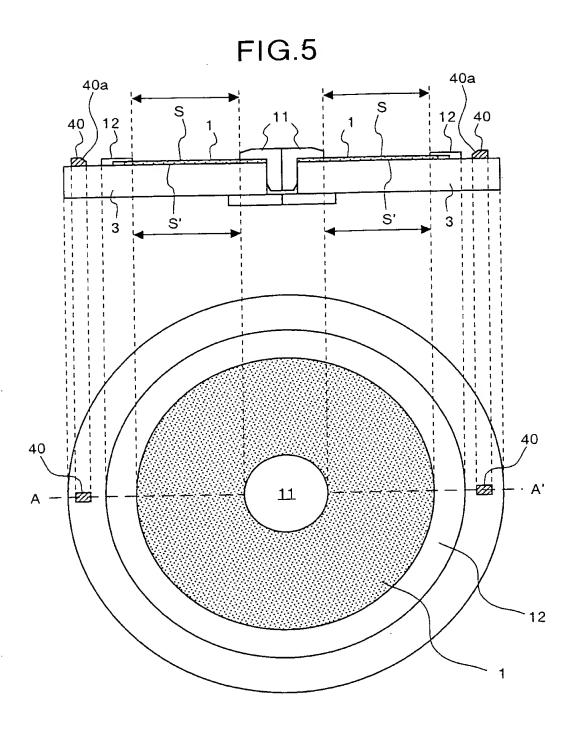
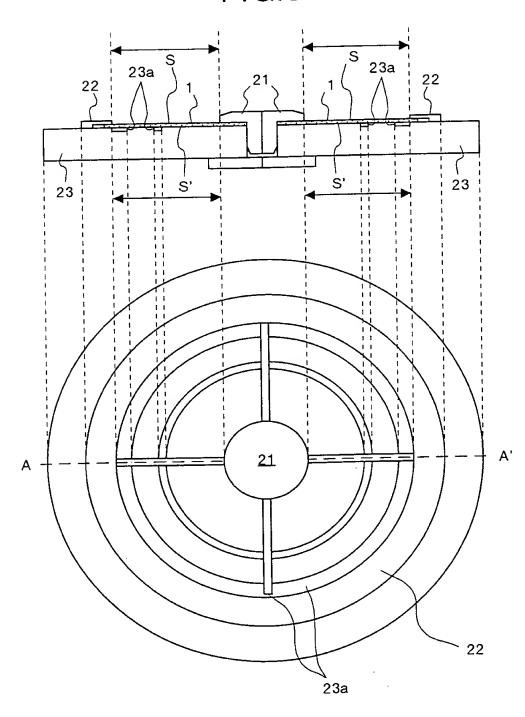
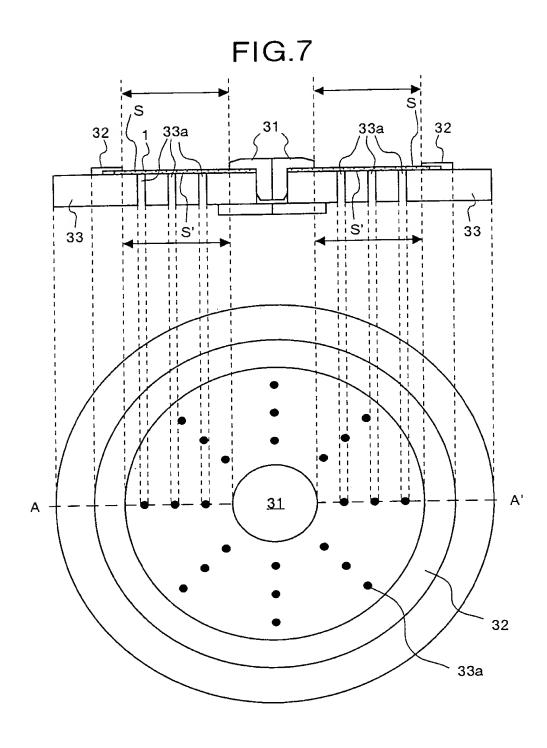


FIG.6



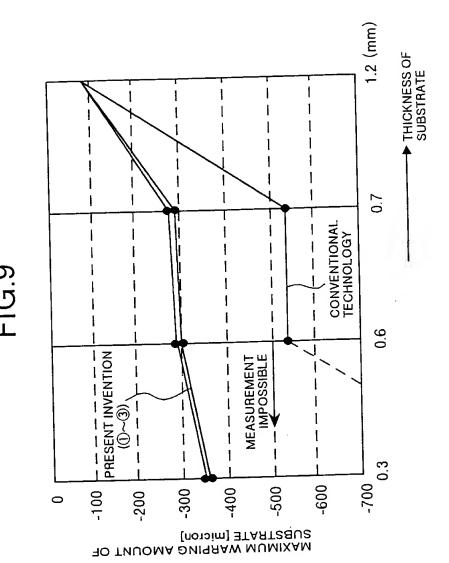
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| | 1.2mm | -100 | 06 | -85 | -85 | 06- |
|------------------------|-------|--|-------------|-------------|-------------|-------------|
| UBSTRATE | 0.7mm | -540 | -290 | -280 | -280 | -290 |
| THICKNESS OF SUBSTRATE | 0.6mm | -550 | -300 | -290 | -290 | -300 |
| HT. | 0.3mm | MEASUREMENT IMPOSSIBLE | -350 | -340 | 340 | -350 |
| <u> </u> | | CONVENTIONAL MEASUREMENT TECHNOLOGY IMPOSSIBLE | EMBODIMENTÛ | EMBODIMENT@ | EMBODIMENT® | EMBODIMENT® |
| | | TNUOMA ĐNIGRAW MUMIXAM [m ¼] TARTSBUS TO | | | | |



CSLON ET **AL (703) 413-3000** KET #*0567-4909-3*sheet<u>9</u>of <u>38</u>

FIG.10

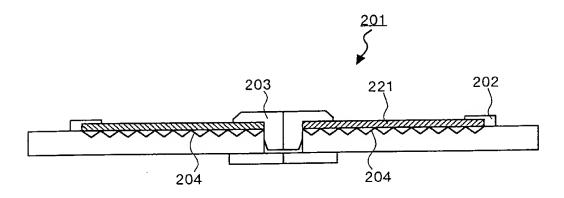
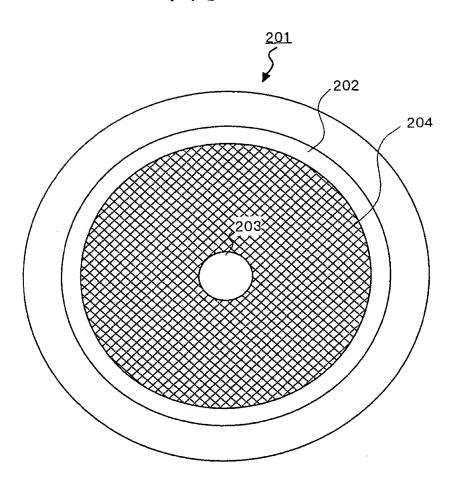


FIG.11



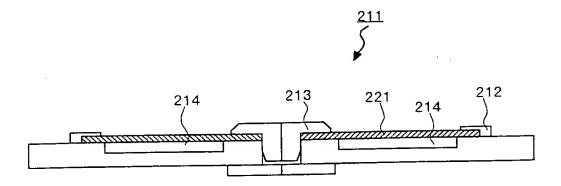


FIG.13

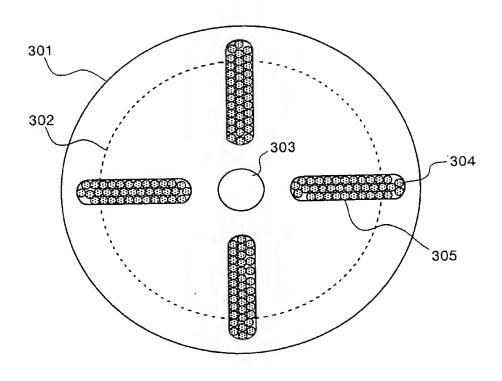


FIG.14

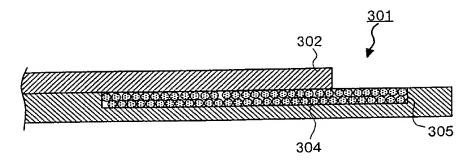


FIG.15

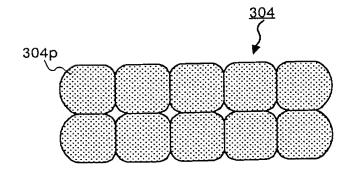


FIG.16

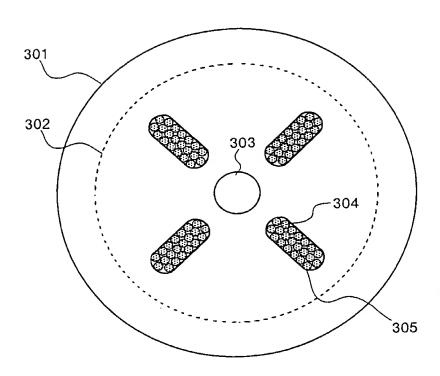


FIG.17

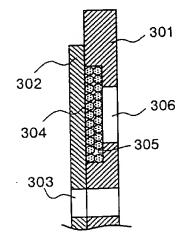


FIG.18

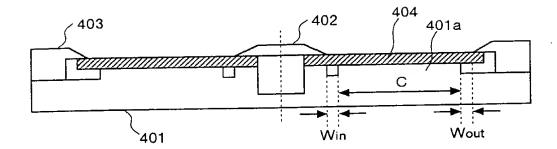


FIG.19

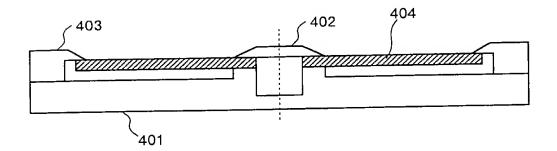


FIG.20

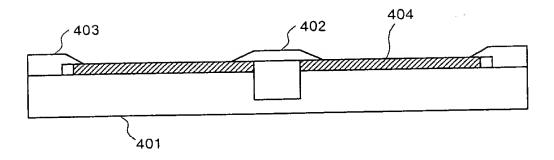


FIG.21

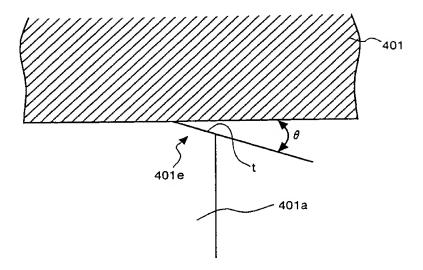
| SUBSTRATE OR FILM-FORMED LAYER | MATERIAL | THICKNESS |
|-----------------------------------|----------------------|-----------|
| REFLECTION LAYER | AI ALLOY | 160nm |
| UPPER BASE PROTECTION LAYER | ZnS•SiO ₂ | 30nm |
| RECORDING LAYER | Ag-In-Sb-Te | 20nm |
| LOWER BASE PROTECTION LAYER | znS•SiO ₂ | 180nm |
| SUBSTRATE | POLYCARBONATE | 0.6mm |

| TYPES OF SUBSTRATE HOLDER | WARPING RATE OF SUBSTRATE (μm) |
|-------------------------------------|-----------------------------------|
| SUBSTRATE HOLDER SHOWN IN FIG.18 | 100 |
| SUBSTRATE HOLDER SHOWN IN FIG.19 | >400 |
| SUBSTRATE HOLDER SHOWN IN FIG.20 | 100 |

| NO. | WIDTH WIN FROM AN INNER MASK TO A SUBSTRATE HOLDER EDGE (mm) | WIDTH Wout FROM AN INNER MASK TO A SUBSTRATE HOLDER EDGE (mm) | WARPING AMOUNT OF THE SUBSTRATE (\(\mu \text{m} \) | A NUMBER OF UNSUCCESSFULLY LOADED SUBSTRATES AMONG 100 SHEETS CONTINUOUSLY FORMED |
|-----|--|---|--|---|
| 1 | 4 | 1 | 100 | 0 |
| 2 | 4 | 0 | 100 | 20 |
| 3 | 4 | 0.5 | 100 | 0 |
| 4 | 4 | 3 | 100 | 0 |
| 5 | 4 | 5 | 100 | 0 |
| 6 | 1 4 | 6 | 150 | 0 |
| 7 | 4 | 7 | 200 | 0 |
| 8 | 1 | 1 | 100 | 20 |
| | 2 | 1 | 100 | 0 |
| 9 | 5 | 1 | 100 | 0 |
| 10 | 7 | 1 | 100 | 0 |
| 11 | | | 100 | 0 |
| 12 | 10 | | 120 | 0 |
| 13 | 11 | | 150 | 0 |
| 14 | 12 | <u> </u> | 1 | <u> </u> |

| NO. | TAPER ANGLE θ IN SUBSTRATE HOLDER EDGE (deg.) | WARPING AMOUNT OF THE SUBSTRATE (µm) | PRESENCE OF A DAMAGE ON A SUBSTRATE CAUSED BY SUBSTRATE HOLDER EDGE SECTION |
|-----|--|--|---|
| 15 | 0 | 100 | YES |
| 16 | 0.5 | 100 | YES |
| 17 | 1.0 | 100 | NO |
| 18 | 1.5 | 100 | ОИ |
| 19 | 2.0 | 100 | NO |
| 20 | 2.5 | 150 | NO |
| 21 | 3.0 | 200 | NO |

FIG.25



| NO. | WIDTH H OF SILICON RUBBER IN SUBSTRATE HOLDER EDGE (mm) | WARPING RATE OF A SUBSTRATE (μm) | PRESENCE OF A DAMAGE ON A SUBSTRATE CAUSED BY SUBSTRATE HOLDER EDGE SECTION |
|-----|--|---|---|
| 22 | 0 | 100 | YES |
| 23 | 0.1 | 100 | ИО |
| 24 | 0.3 | 100 | NO |
| 25 | 0.5 | 100 | NO |
| 26 | 0.6 | 120 | NO |
| 27 | 0.7 | 150 | NO |

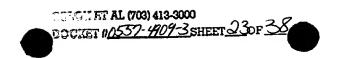


FIG.27

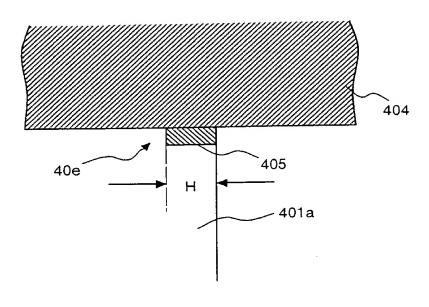
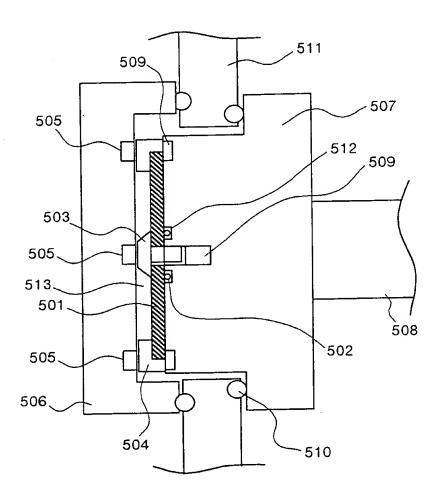
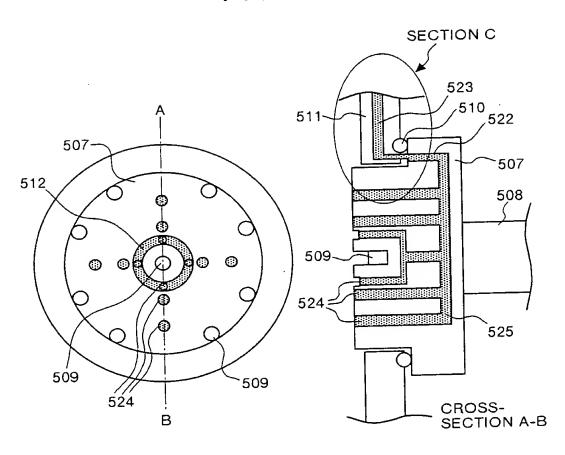


FIG.28



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FIG.29



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FIG.30

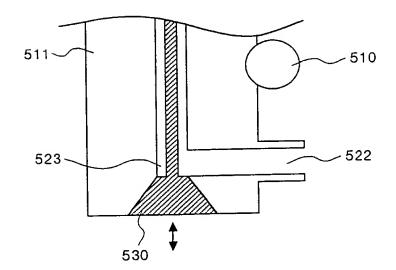


FIG.31

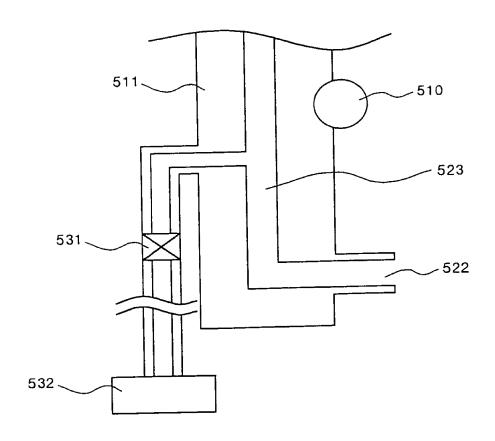


FIG.32

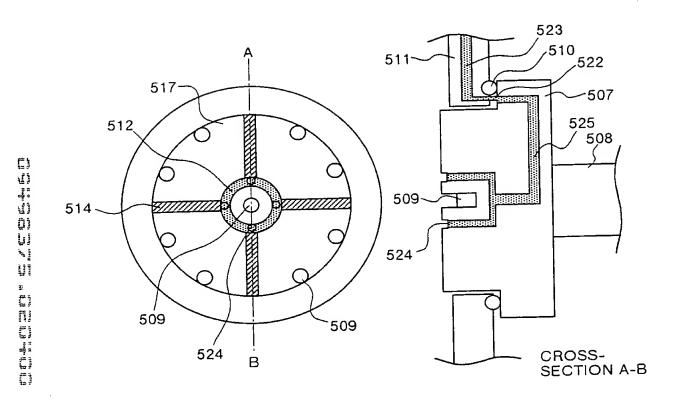


FIG.33

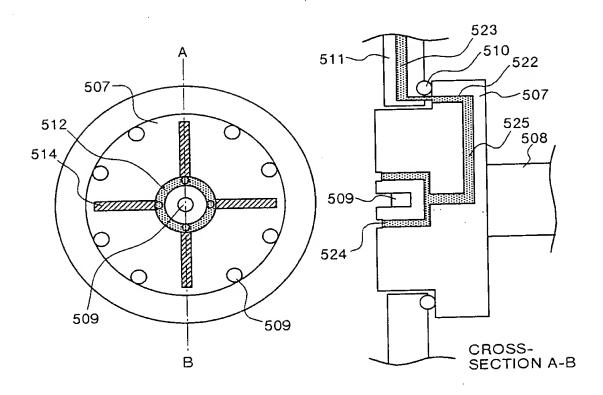
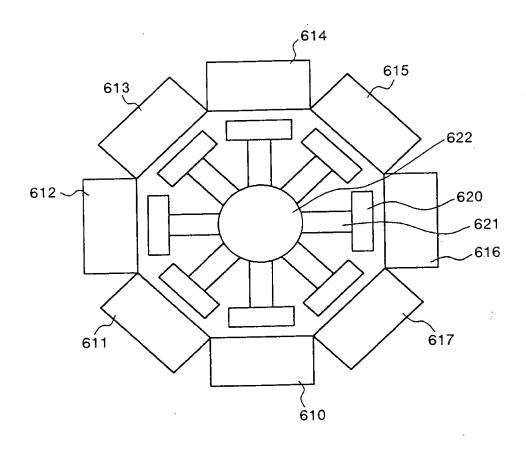
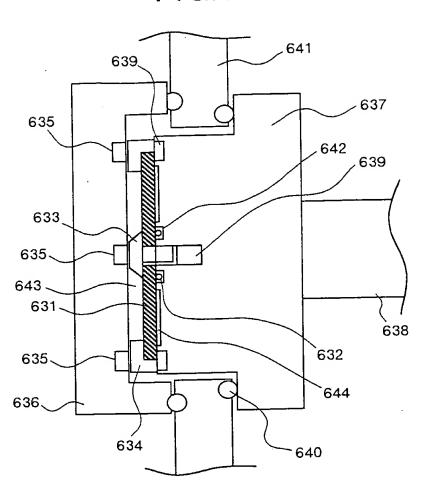


FIG.34



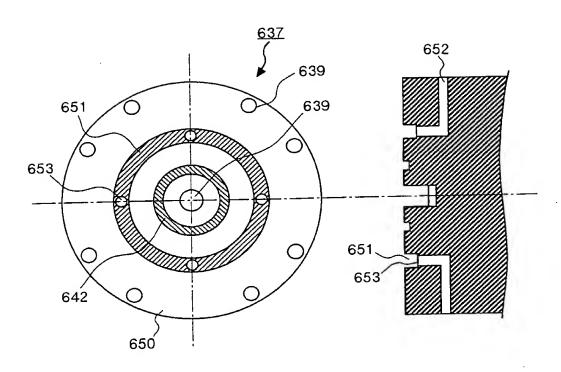
for the first allow start with the start that the start was true to the start the start were

FIG.35



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FIG.36



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FIG.37

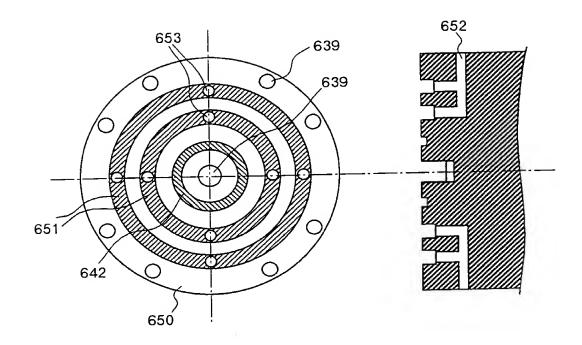


FIG.38

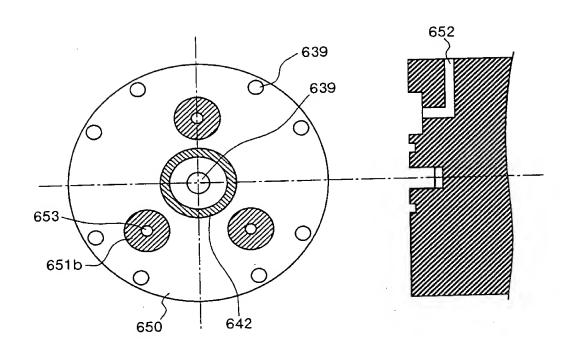
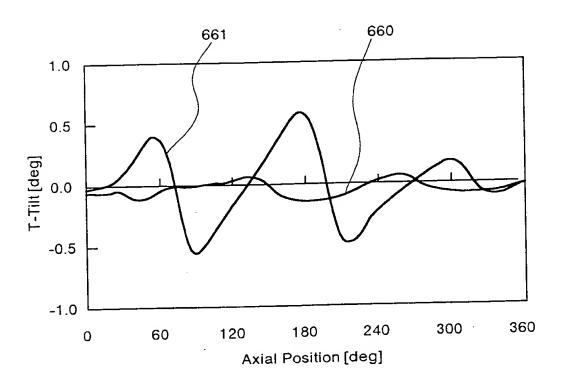


FIG.39





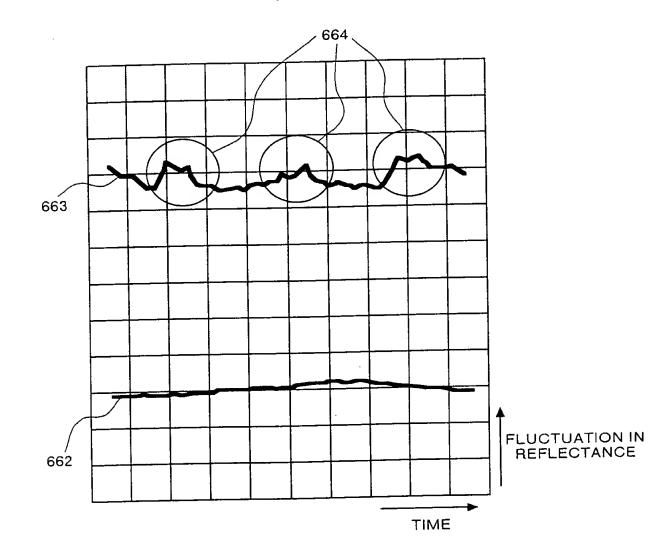


FIG.41

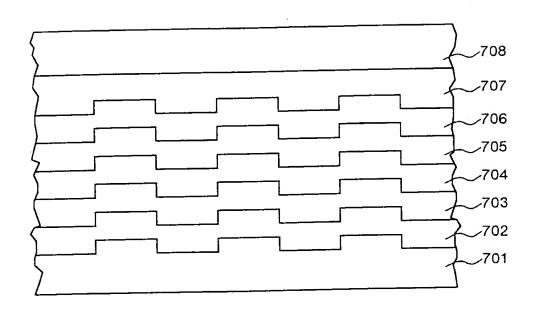
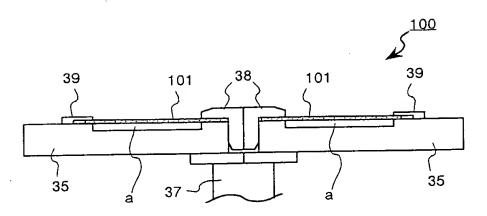


FIG.42



The first of the state of the s